🧮 Arrays (Basics, Prefix, Two Pointers) — 40

1. Two Sum
2. Best Time to Buy and Sell Stock
3. Contains Duplicate
4. Maximum Subarray (Kadane only, not DP)
5. Move Zeroes
6. Plus One
7. Rotate Array
8. Merge Sorted Array
9. Remove Duplicates from Sorted Array
10. Remove Element
11. Find Pivot Index
12. Running Sum of 1d Array
13. Squares of a Sorted Array
14. Product of Array Except Self
15. Majority Element
16. Intersection of Two Arrays
17. Intersection of Two Arrays II
18. Missing Number
19. Find All Numbers Disappeared in an Array
20. Find the Duplicate Number
21. Maximum Product of Two Elements in an Array
22. Array Partition
23. Height Checker
24. Sort Array by Parity
25. Third Maximum Number
26. Check If N and Its Double Exist
27. Valid Mountain Array
28. Replace Elements with Greatest Element on Right Side
29. Duplicate Zeros
30. Find Numbers with Even Number of Digits
31. Largest Number At Least Twice of Others
32. Can Place Flowers
33. Fair Candy Swap
34. Relative Sort Array
35. Degree of an Array
36. Monotonic Array
37. Shortest Unsorted Continuous Subarray
38. Maximum Average Subarray I
39. Count Primes
40. Range Sum Query – Immutable

Sliding Window

1. Maximum Average Subarray I
2. Minimum Size Subarray Sum
3. Minimum Window Substring
4. Permutation in String
5. Find All Anagrams in a String
6. Longest Repeating Character Replacement
7. Max Consecutive Ones
8. Max Consecutive Ones III
9. Fruit Into Baskets
10. Sliding Window Maximum (Using Deque)

🔁 Strings — 35

1. Valid Anagram
2. Reverse String
3. Reverse Words in a String
4. Implement strStr()
5. Longest Common Prefix
6. Valid Palindrome
7. Palindrome Permutation
8. First Unique Character in a String
9. Isomorphic Strings

10. Ransom Note
11. Detect Capital
12. Add Strings
13. Length of Last Word
14. Excel Sheet Column Number
15. Word Pattern
16. Reverse Vowels of a String
17. Check If Two String Arrays are Equivalent
18. To Lower Case
19. Count and Say
20. Repeated Substring Pattern
21. Find the Difference
22. Rotate String
23. Goat Latin
24. Valid Parentheses (stack-based)
25. Simplify Path
26. Longest Palindrome (frequency based)
27. Jewels and Stones
28. Buddy Strings
29. Reformat Date
30. Reformat Phone Number
31. Split a String in Balanced Strings
32. Make The String Great
33. Remove All Adjacent Duplicates In String
34. Check if Sentence Is Pangram
35. Maximum Number of Words Found in Sentences

Binary Search

1. Binary Search (Standard)
2. Search Insert Position
3. First Bad Version
4. Guess Number Higher or Lower
5. Search a 2D Matrix
6. Search in Rotated Sorted Array
7. Find Minimum in Rotated Sorted Array
8. Find Peak Element
9. Koko Eating Bananas
10. Time Based Key-Value Store

11. Capacity To Ship Packages Within D Days
12. Sqrt(x)
13. Valid Perfect Square
14. Arranging Coins
15. Single Element in a Sorted Array

📦 Stack / Queue — 25

1. Valid Parentheses
2. Min Stack
3. Implement Stack using Queues
4. Implement Queue using Stacks
5. Backspace String Compare
6. Baseball Game
7. Next Greater Element I
8. Next Greater Element II
9. Remove Outermost Parentheses
10. Daily Temperatures (monotonic stack, not DP)
11. Evaluate Reverse Polish Notation
12. Simplify Path
13. Design Browser History
14. Design Circular Queue
15. Design Circular Deque
16. Make The String Great
17. Crawler Log Folder
18. Decode String
19. Final Prices With a Special Discount
20. Asteroid Collision
21. Remove K Digits
22. Online Stock Span
23. Valid Parenthesis String
24. Check If Word Is Valid After Substitutions
25. Remove All Adjacent Duplicates in String II

🌳 Trees (Traversal, BFS, DFS) — 35

1. Binary Tree Inorder Traversal
2. Binary Tree Preorder Traversal
3. Binary Tree Postorder Traversal
4. Maximum Depth of Binary Tree
5. Minimum Depth of Binary Tree
6. Same Tree
7. Symmetric Tree
8. Invert Binary Tree
9. Path Sum
10. Path Sum II
11. Binary Tree Level Order Traversal
12. Binary Tree Zigzag Level Order Traversal
13. Average of Levels in Binary Tree
14. Diameter of Binary Tree
15. Balanced Binary Tree
16. Merge Two Binary Trees
17. Lowest Common Ancestor of a Binary Tree
18. Subtree of Another Tree
19. Count Complete Tree Nodes
20. Find Bottom Left Tree Value
21. Binary Tree Right Side View
22. Range Sum of BST
23. Search in a Binary Search Tree
24. Insert into a Binary Search Tree
25. Validate Binary Search Tree
26. Convert Sorted Array to Binary Search Tree
27. Two Sum IV – Input is a BST
28. Increasing Order Search Tree
29. Leaf-Similar Trees
30. N-ary Tree Preorder Traversal
31. N-ary Tree Level Order Traversal
32. Maximum Depth of N-ary Tree
33. Sum of Left Leaves
34. Cousins in Binary Tree
35. Find Mode in Binary Search Tree

🔗 Linked Lists — 20

1. Reverse Linked List
2. Merge Two Sorted Lists
3. Remove Linked List Elements
4. Delete Node in a Linked List
5. Middle of the Linked List
6. Palindrome Linked List
7. Intersection of Two Linked Lists
8. Linked List Cycle
9. Linked List Cycle II
10. Remove Duplicates from Sorted List
11. Remove Nth Node From End of List
12. Add Two Numbers
13. Odd Even Linked List
14. Swap Nodes in Pairs
15. Rotate List
16. Partition List
17. Reorder List
18. Design Linked List
19. Flatten a Multilevel Doubly Linked List
20. Copy List with Random Pointer

🔍 Hashing / Sets / Maps — 20

1. Two Sum
2. Group Anagrams
3. Happy Number
4. Contains Duplicate II
5. Longest Consecutive Sequence

6. Valid Sudoku
7. Word Pattern
8. Subarray Sum Equals K (prefix sum)
9. Find All Anagrams in a String
10. Bulls and Cows
11. Count Number of Nice Subarrays
12. Logger Rate Limiter
13. Isomorphic Strings
14. First Missing Positive
15. Minimum Index Sum of Two Lists
16. Keyboard Row
17. Find Common Characters
18. Unique Number of Occurrences
19. Destination City
20. Number of Good Pairs

🧠 Math / Bit Manipulation — 15

1. Single Number
2. Single Number II
3. Power of Two
4. Power of Three
5. Power of Four
6. Number of 1 Bits
7. Counting Bits
8. Reverse Bits
9. Excel Sheet Column Title
10. Sqrt(x)
11. Happy Number
12. Add Digits
13. Missing Number
14. Sum of Digits in the Minimum Number
15. Maximum 69 Number
16. Heaps / Priority Queue
17. Kth Largest Element in an Array
18. Kth Largest Element in a Stream
19. Last Stone Weight
20. K Closest Points to Origin

21. Task Scheduler
22. Design Twitter
23. Find Median from Data Stream
24. Seat Reservation Manager
25. Relative Ranks
26. Maximum Product of Two Elements in an Array

Basic Graphs (BFS/DFS)

No complex Dijkstra/Union-Find hard problems, just traversal. 181. **Number of Islands** 182. **Max Area of Island** 183. **Flood Fill** 184. **Rotting Oranges** 185. **Surrounded Regions** 186. **Clone Graph** 187. **Walls and Gates** (Premium, but concept is key: Multi-source BFS) 188. **Pacific Atlantic Water Flow** 189. **Course Schedule** (Topological Sort - common "Hard" boundary) 190. **Course Schedule II** 191. **Word Search** (Backtracking on Grid) 192. **Island Perimeter** 193. **Find the Town Judge** 194. **Find Center of Star Graph**

Essential SQL (Don't ignore this!)

1. **Combine Two Tables**
2. **Second Highest Salary**
3. **Employees Earning More Than Their Managers**
4. **Duplicate Emails**
5. **Customers Who Never Order**
6. **Delete Duplicate Emails**
7. **Rising Temperature**
8. **Game Play Analysis I**
9. **Big Countries**
10. **Classes More Than 5 Students**
11. **Swap Salary**